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Cooperative product development in automotive engineering

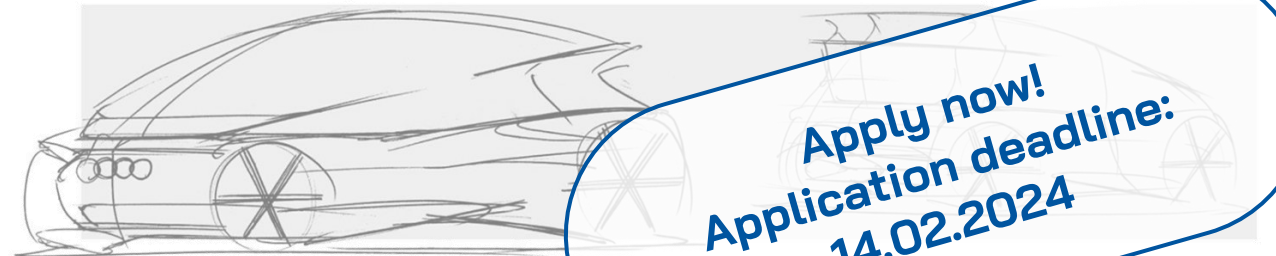
Apply now for the course in the summer semester 2024!

**Course and exchange with Hongik University in Seoul.
Interdisciplinary, international vehicle development process
in an industrial environment.**

Aachen, 22.01.2024

Matthis Hötter, M.Sc.

Institute for Automotive Engineering (ika)



**Apply now!
Application deadline:
14.02.2024**

Experience collaborative development of a user-centred mobility concept



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In the summer semester 2024 the course "Cooperative Product Development in Automotive Engineering" will be offered in cooperation between ika, the University of Wuppertal and Hongik University!

During the course **"Cooperative Product Development in Automotive Engineering"**, mobility concepts for a specific field of application will be developed within one semester. Together with 20 Korean students and 9 fellow students from RWTH, you will be able to experience the individual phases of the vehicle development process up close and gain practical knowledge while working directly with industrial partners. This unique experience will not only enhance your technical skills enormously, but also train your soft skills in interdisciplinary work with diverse cultural and technical backgrounds.

The goal of this course is to teach methods and tools of collaboration in distributed locations while applying them in international teams across time zones. Moreover, the interdisciplinary development of a vehicle concept in close cooperation with designers provides the students of RWTH Aachen University with unique insights into this otherwise somewhat alien discipline. At the beginning of the course, the theoretical basics are first discussed in lectures conducted jointly via the Internet, and project groups are formed with their own project tasks. In the further course, the project goals are defined and worked out during the semester. The process is accompanied by interim presentations and reviews. On the one hand, great emphasis is placed on efficient self-organization and project management. On the other hand, skills in the use of CAX- and Rapid Prototyping-Tools of industrial practice are trained.

To intensify the group work, we aim for reciprocal visits. The RWTH students will travel to Korea for 10 days in May (approx. week 20-21) and get to know different sociological and cultural aspects of the partner country. The return visit will probably take place in week 25-26.



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What is the aim of the course?

- Task: Development of innovative mobility solutions from problem definition to virtual concept design
- Interdisciplinary work through direct collaboration between designers and engineers using design thinking
- Practical experience with modern CAx- as well as agile product development methods
- A two-way exchange programme with Seoul (approx. 2 weeks each) enables collaboration on site
- Insights into current research and trend topics (circular economy, future mindsets, etc.) of an OEM,
- High degree of realism through a industry relevant development task



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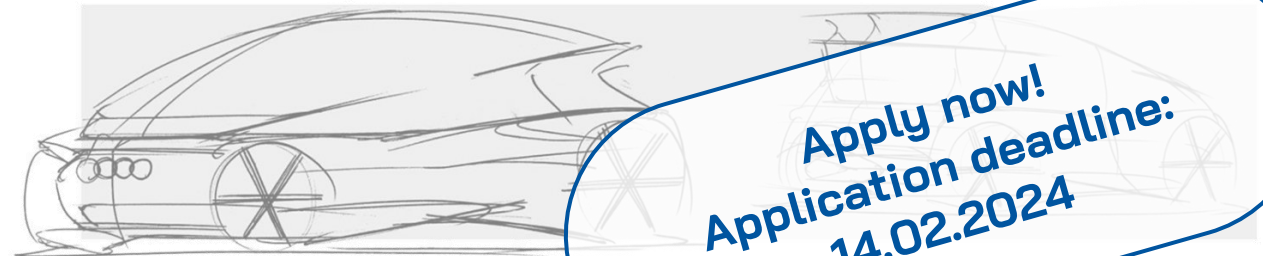
Prerequisites:

- Participants should have a bachelor's degree in mechanical engineering or similar and, in the best case, be enrolled in the master's program in automotive engineering and transportation. Students from other Master's programs or students about to complete their Bachelor's degree may also participate in the course, if they have the appropriate personal qualifications.
- The students will have to pay a share of the travel expenses. The ika will try to keep this at the level common for excursions (max. 250 Euro). More detailed information will follow at a later date.
- Please note that due to the Korean Semester, classes start in March and require your continuous attendance (exceptions are possible after consultation with the lecturers).

Application:

- Only 10 places are available on the RWTH side. Therefore, a written application with the following points is required:
 - Letter of motivation that let's us know what makes you a special candidate
 - Current status of studies (transcript of records)
 - Curriculum vitae in tabular forma

Only complete applications will be considered!
Please send all documents by 14.02.2024 to:
kopro@ika.rwth-aachen.de



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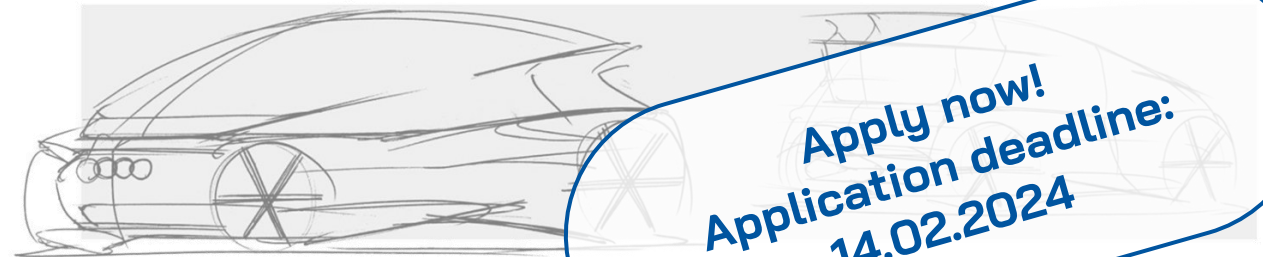
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Kontakt



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Matthis Hötter, M.Sc.

Institut für Kraftfahrzeuge (ika)
RWTH Aachen University
Steinbachstraße 7
52074 Aachen

Telefon +241 80 23548
E-Mail Matthis.hoetter@ika.rwth-aachen.de
Internet www.ika.rwth-aachen.de

